



Element Materials Technology - Fort Wayne  
328 Ley Rd.  
Fort Wayne, IN 46825  
TEL: (260) 424-1622 FAX: (260) 424-9124  
Website: [www.element.com](http://www.element.com)

February 21, 2020

Nickie Geros  
East Chicago Sanitary District  
5201 Indianapolis Blvd  
East Chicago, IN 46312  
TEL: 219-391-8466  
FAX:

RE: S-901

Order No.: 20021245

Dear Nickie Geros:

Element Materials Technology - Fort Wayne received 2 sample(s) on 2/13/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ryan Fitzwater  
General Manager  
328 Ley Rd.  
Fort Wayne, IN 46825



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## Case Narrative

WO#: 20021245  
Date: 2/21/2020

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**CLIENT:** East Chicago Sanitary District  
**Project:** S-901

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625\_W Comment: The bis (2-ethylhexyl)phthalate is biased high due to the compound being present in the laboratory method blank from laboratory contamination.

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Original



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## Analytical Report

(wastewater)

WO#: 20021245

Date Reported 2/21/2020

**CLIENT:** East Chicago Sanitary District **Collection Date:** 2/12/2020 9:07:00 AM  
**Project:** S-901  
**Lab ID:** 20021245-001 **Matrix:** WASTEWATER  
**Client Sample ID** #901  
**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
<b>CYANIDE AVAILABLE BY LIGAND EXCHANGE</b>				<b>OIA-1677-09</b>		Analyst: <b>AN</b>	
Cyanide, Available	0.15	0.0020		mg/L	1		2/18/2020 1:38:00 PM
<b>OIL AND GREASE, TOTAL</b>				<b>E1664</b>		Analyst: <b>HF</b>	
Oil & Grease, Total	11.8	5.0		mg/L	1	50.0	2/14/2020 12:17:06 PM
<b>SV COMPOUNDS FOR CATEGORICAL RQTS</b>				<b>E625</b>		Analyst: <b>SF</b>	
Bis(2-ethylhexyl)phthalate	0.66	0.10	*	mg/L	10	0.16	2/19/2020 6:56:00 PM

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



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## Analytical Report

(wastewater)

WO#: 20021245

Date Reported 2/21/2020

**CLIENT:** East Chicago Sanitary District **Collection Date:** 2/12/2020 9:07:00 AM  
**Project:** S-901  
**Lab ID:** 20021245-002 **Matrix:** WASTEWATER  
**Client Sample ID** #901  
**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
<b>FLUORIDE</b>					<b>E300.0</b>		Analyst: <b>HN</b>
Fluoride	3.7	0.5	*	mg/L	5	2.9	2/17/2020 3:42:07 PM
<b>CHEMICAL OXYGEN DEMAND</b>					<b>M5220 D</b>		Analyst: <b>NB</b>
Chemical Oxygen Demand	556	10.0		mg/L	1		2/17/2020 7:37:00 AM
<b>AMMONIA AS N</b>					<b>E350.1</b>		Analyst: <b>AC</b>
Nitrogen, Ammonia (As N)	26.6	0.500		mg/L	5	77.0	2/17/2020 1:08:26 PM
<b>PHENOLICS IN WASTEWATER</b>					<b>E420.1</b>		Analyst: <b>ANS</b>
Phenolics, Total Recoverable	0.063	0.050		mg/L	2	0.700	2/14/2020 10:00:00 AM
<b>TOTAL PHOSPHORUS</b>					<b>M4500-P F</b>		Analyst: <b>HN</b>
Total Phosphorus	0.357	0.100		mg/L	1	5.50	2/17/2020 2:40:50 PM
<b>TOTAL SUSPENDED SOLIDS</b>					<b>M2540 D</b>		Analyst: <b>ANS</b>
Suspended Solids (Residue, Non-Filterable)	42	14		mg/L	1		2/14/2020 6:51:00 PM
<b>MERCURY</b>					<b>E245.1</b>		Analyst: <b>FJR</b>
Mercury	< 0.00010	0.00010		mg/L	1		2/20/2020 8:39:14 AM
<b>METALS IN WATER BY ICP-MS, TOTALS</b>					<b>E200.8</b>		Analyst: <b>FJR</b>
Arsenic	0.0149	0.00020		mg/L	1	0.500	2/19/2020 5:59:02 AM
Chromium	0.00318	0.00040		mg/L	1	0.282	2/19/2020 5:59:02 AM
Copper	0.00457	0.00020		mg/L	1	0.301	2/19/2020 5:59:02 AM

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level  
H Holding times for preparation or analysis exceeded  
M Manual Integration used to determine area response  
PL Permit Limit  
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitation Limit  
S Spike Recovery outside accepted recovery limits



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## Analytical Report

(wastewater)

WO#: 20021245

Date Reported 2/21/2020

**CLIENT:** East Chicago Sanitary District **Collection Date:** 2/12/2020 9:07:00 AM  
**Project:** S-901  
**Lab ID:** 20021245-002 **Matrix:** WASTEWATER  
**Client Sample ID** #901  
**Sample Location:**

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
METALS IN WATER BY ICP-MS, TOTALS				E200.8	Analyst: FJR		
Lead	0.00060	0.00020		mg/L	1	0.224	2/19/2020 5:59:02 AM
Molybdenum	0.0319	0.00020		mg/L	1	0.200	2/19/2020 5:59:02 AM
Nickel	0.0224	0.00100		mg/L	1	0.390	2/19/2020 5:59:02 AM
Zinc	0.0796	0.00040		mg/L	1	1.48	2/19/2020 5:59:02 AM

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



element

D100 025 m56  
Chain of Custody

Laboratory  
Number

20021245

<b>Client Information:</b>		<b>Billing Information:</b>		<b>PO Number:</b>		<b>Project Name/Number:</b>		<b>Page 1 of 1</b>	
Company Name: East Chicago Sanitary District		Same				S-901		<b>Matrix Code</b>	
Contact Name: Nickie Geros				Quote Number:		Sampler's Signature		DW = Drinking Water	
Address: 5201 Indianapolis Blvd						Required QC Level		WW = Waste Water	
City, State Zip: East Chicago IN 46312						Shipping Method: <i>Hand</i>		AQ = Aqueous	
Phone Number: 219-391-8466		Ext: 240		Bill Monthly		UPS / FedEx / Airborne		OT = Other	
Fax Number:				<input type="checkbox"/> Yes		DHL / Element / Hand / Mail		SL = Sludge	
E-mail Address: ngeros@eastchicago.com				<input type="checkbox"/> No				O = Oil	

Which Regulations Apply:		Turn Time	(Rush turn times will incur a surcharge and must be pre-approved by lab.)		Container	Pres.	Requested Tests								Comments	
<input type="checkbox"/> RCRA	<input type="checkbox"/> Drinking Water	5 TAT														
<input type="checkbox"/> POTW	<input type="checkbox"/> Distribution															
<input type="checkbox"/> NPDES	<input type="checkbox"/> Special															
<input type="checkbox"/> USDA/FDA	<input type="checkbox"/> State															
<input type="checkbox"/> RECAP/RI/SC	<input type="checkbox"/> Other															
Sample ID/Description	Collection Information				Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	CYANIDE 1677	Oil & Grease Total	Bis(2EH) Phthalate	*Metals	NH3, T.PHOS, COD	PHENOL	300:Fl,	TSS	
	Date	Time	Grab / Composite	Matrix												
S-901 Grab	2-12-20	9:07	Grab	WWV	1	P	NAOH	X								
S-901 Grab			Grab	WWV	1	G	H2SO4		X							
S-901 Grab			Grab	WWV	1	G	NONE			X						
S-901 Composite			Comp	WWV	1	P	HNO3				X					
S-901 Composite			Comp	WWV	1	P	H2SO4					X				
S-901 Composite			Comp	WWV	1	G	H2SO4						X			
S-901 Composite			Comp	WWV	2	P	NONE							X	X	
*As, Cr, Cu, Pb, Mo, Ni, Zn, & Hg.																
Samples Meet Acceptance Policy <div>Yes</div> No																

Relinquished by	Date/Time	Received by	Date/Time	Composite Sampler
<i>Y. Lufu</i>	2-13-20 10:50	<i>Nickie Geros</i>	2-13-20 10:50	Start Date/Time: 2-12-20 9:07
<i>Nickie Geros</i>	2-13-20 3:10	<i>Henry</i>	2-13-20 15:10	End Date/Time: 2-13-20 8:32

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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